Bang&Olufsen

Tape Deck Version II

Beocord 3500/4500

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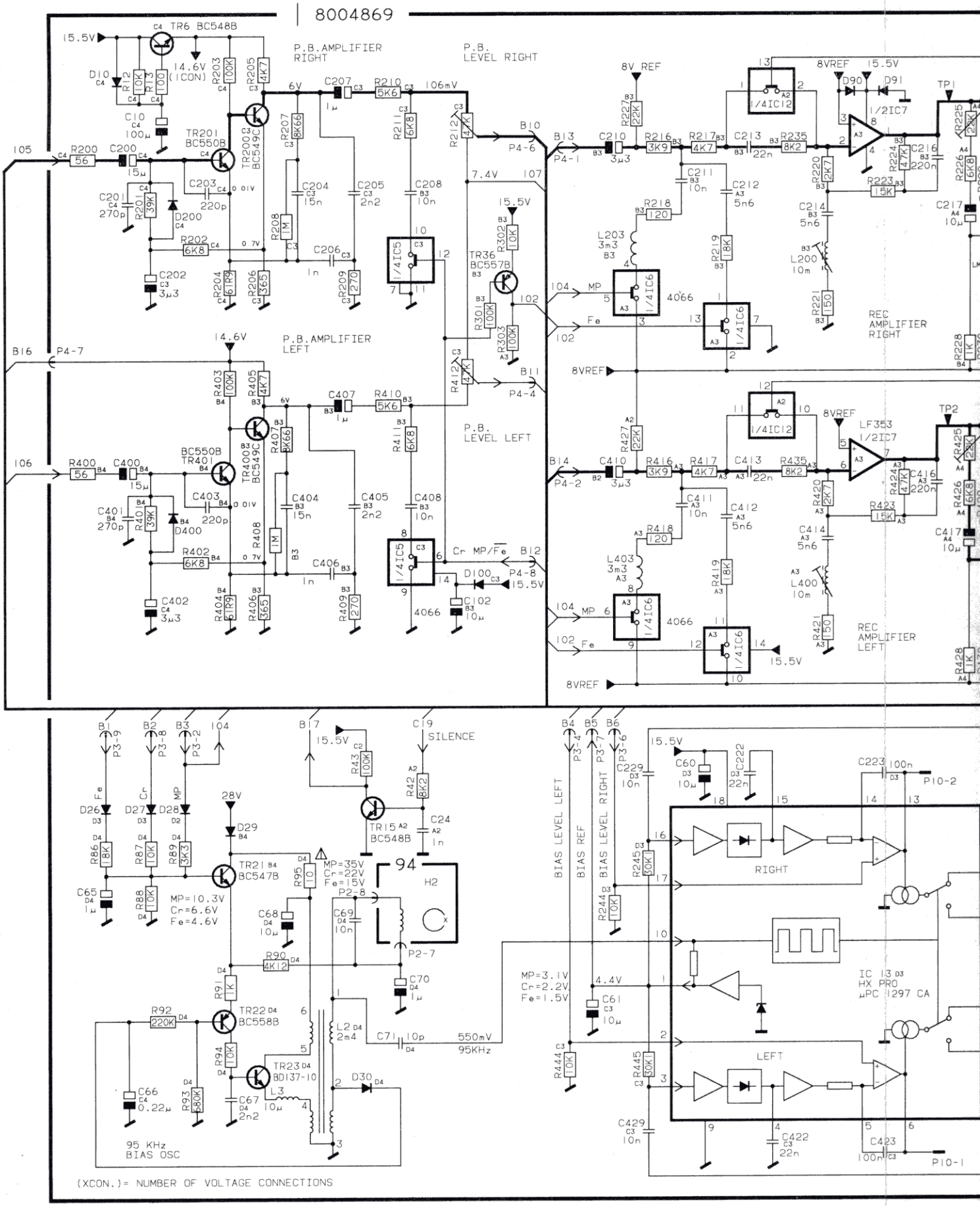
Beocord 3500/4500

SERVICE ANVISNING
SERVICE MANUAL
SERVICEANLEITUNG
MANUAL d'ENTRETIEN

5-91 3538772

Indklæbes i Serviceanvisningen Beocord 4500 (3538714/3538713)
Paste into Service Manual Beocord 4500 (3538714/3538713)
In Serviceanleitung Beocord 4500 (3538714/3538713) einkleben
A coller le Manual d'entretien pour Beocord 4500 (3538714/3538713)

DIAGRAM A (AF and Control)



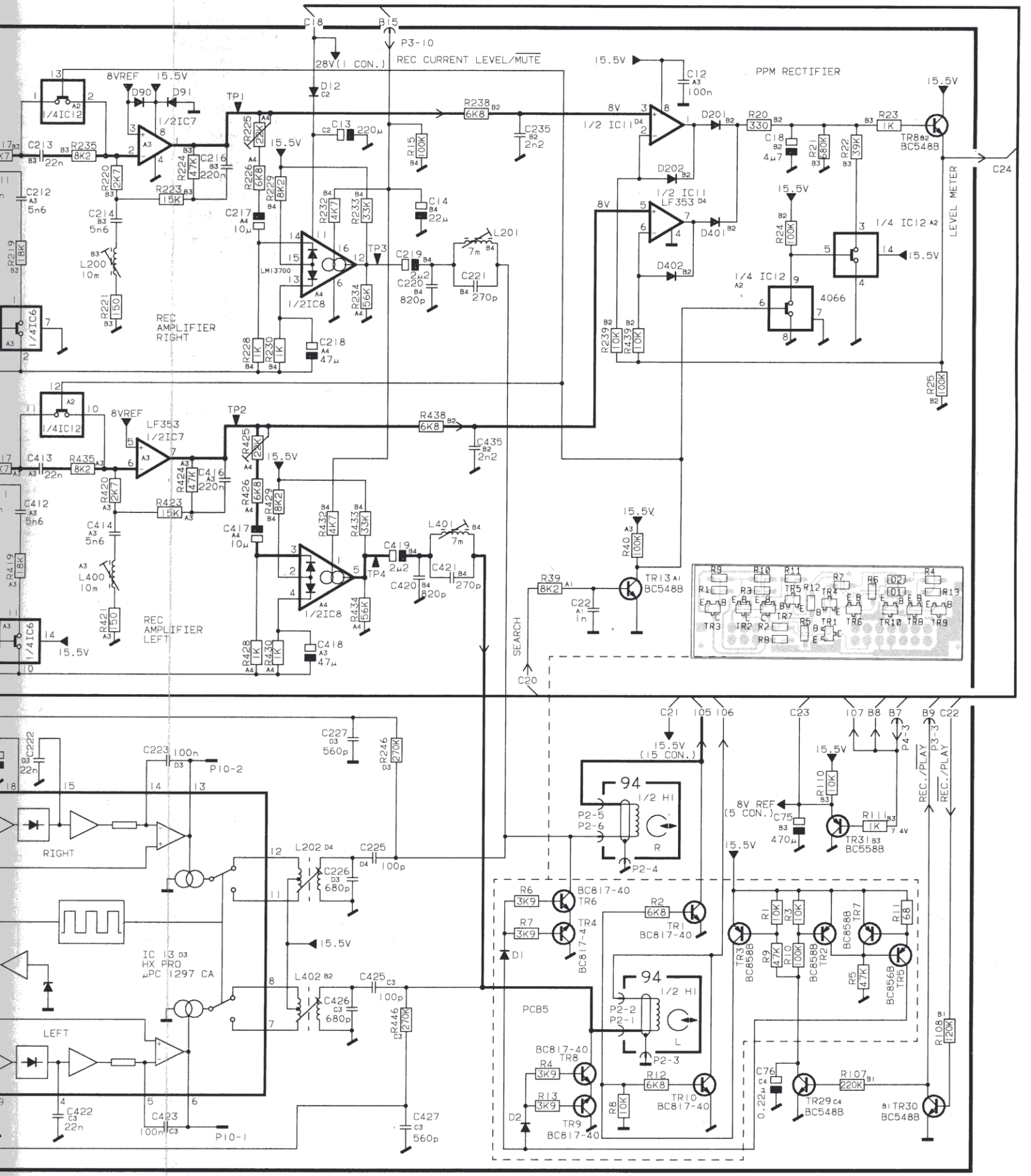
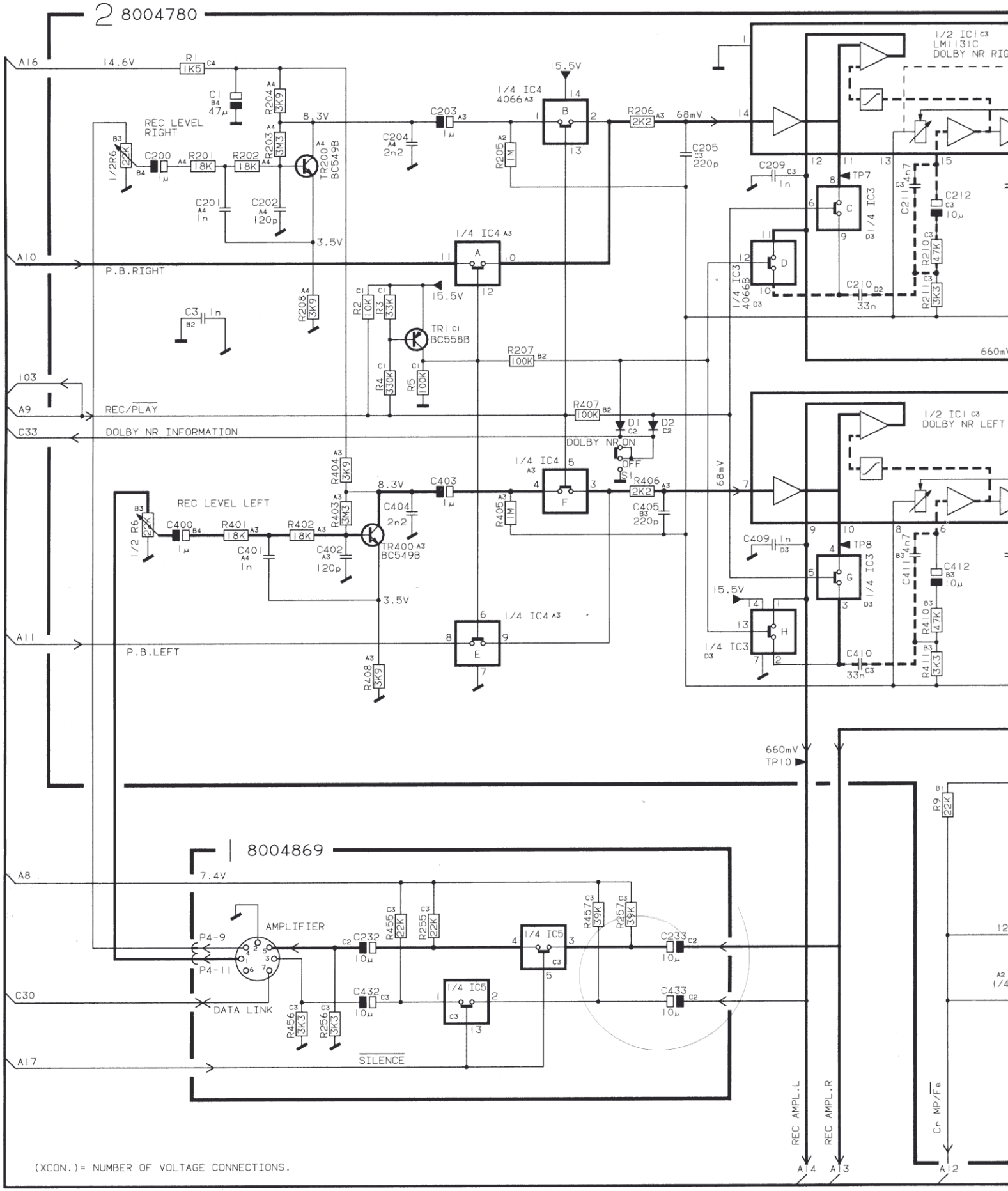

REC CURRENT LEVEL/MUTE
28V(1 CON.)
8VREF
15.5V
PPM RECTIFIER
LEVEL METER
REC AMPLIFIER RIGHT
REC AMPLIFIER LEFT
LF353
LM13700
4066
SEARCH
RIGHT
LEFT
IC 13 HX PRO µPC 1297 CA
PCB5
REC./PLAY
P3-10
P10-2
P10-1
TR8 BC548B
TR13 BC548B
TR31 BC558B
TR29 BC548B
TR30 BC548B

DIAGRAM B (Dolby NR, Bias Switch and Tape Type Logic)



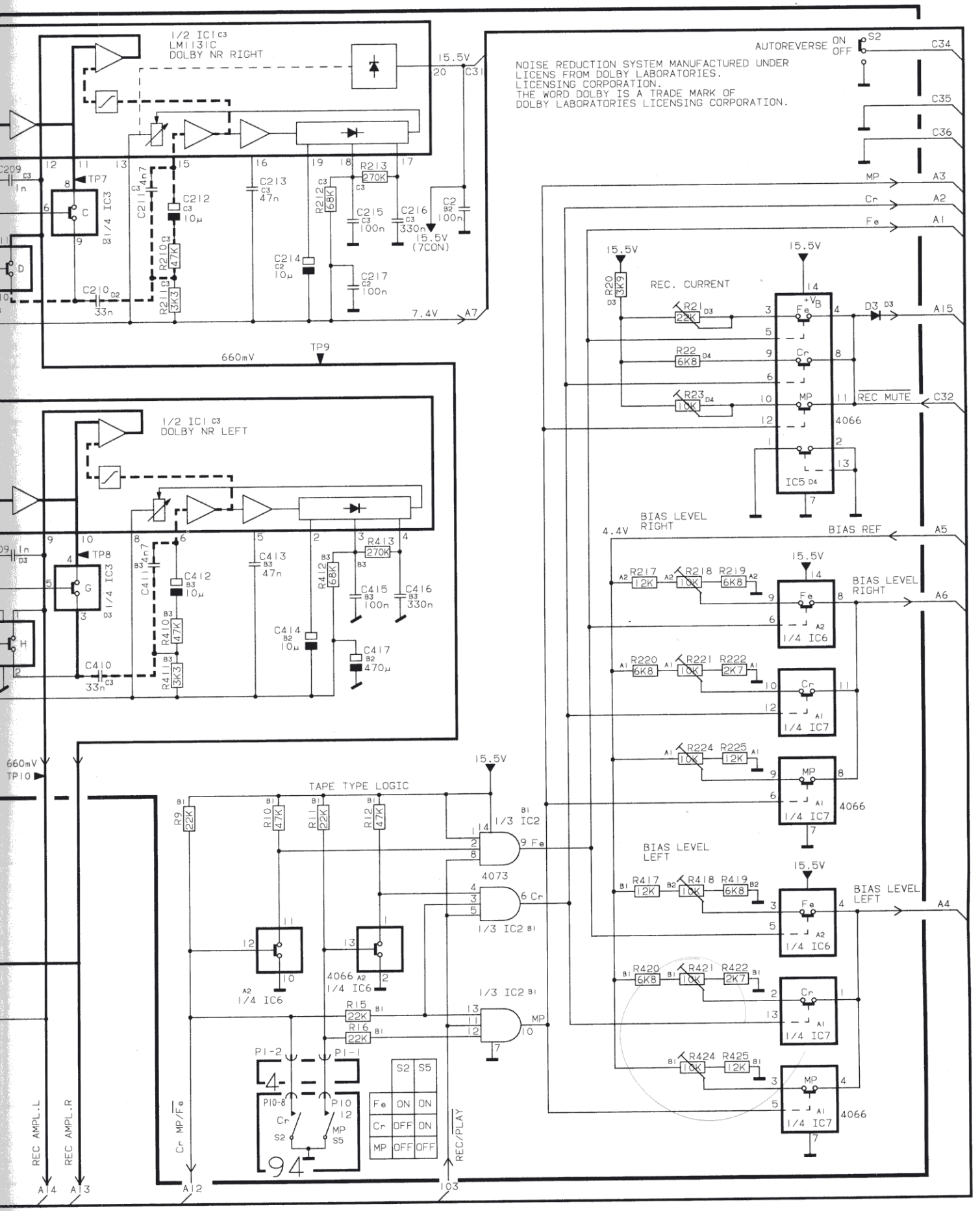
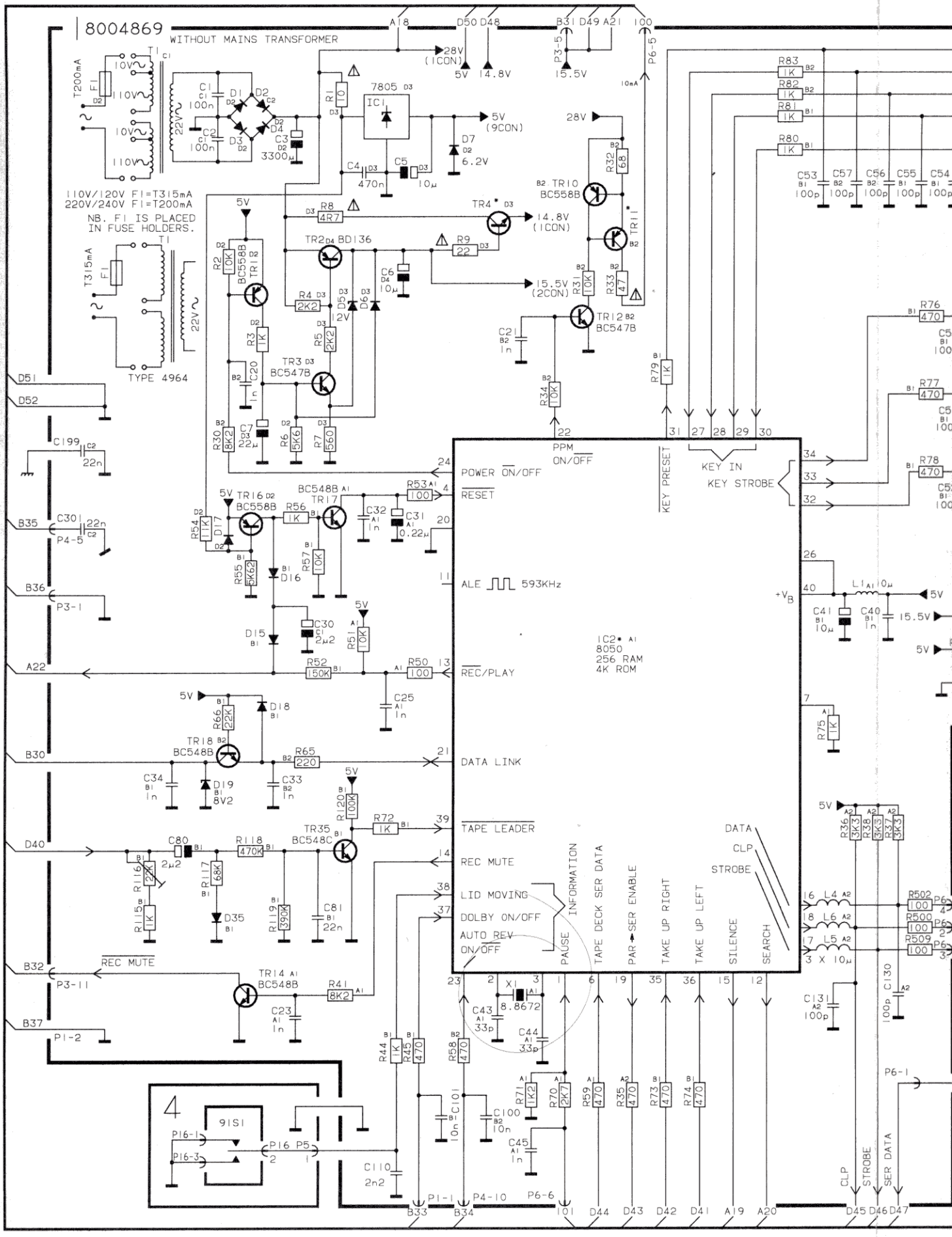

1/2 IC1 C3
LM1131C
DOLBY NR RIGHT
15.5V
20
C31
C209 C3 1n
12
11
13
TP7
8
6
C
9
B1/4 IC3
C211 C3 4n7
C212 C3 10µ
C213 C3 47n
16
15
19
18
17
R213 270K C3
R212 C3 68K
C215 C3 100n
C216 C3 330n
C2 B2 100n
15.5V (7CON)
R210 C3 47K
R211 C3 3K3
C210 D2 33n
C214 C2 10µ
C217 C2 100n
7.4V
A7
660mV
TP9
1/2 IC1 C3
DOLBY NR LEFT
9
10
8
6
5
2
3
4
C409 In D3
TP8
4
G
5
3
D3
1/4 IC3
C411 B3 4n7
C412 B3 10µ
C413 B3 47n
R412 B3 68K
R413 270K B3
C415 B3 100n
C416 B3 330n
C414 B2 10µ
C417 B2 470µ
R410 B3 47K
R411 B3 3K3
C410 C3 33n
H
2
660mV
TP10
REC AMPL.L
REC AMPL.R
A14
A13
TAPE TYPE LOGIC
R9 B1 22K
R10 B1 47K
R11 B1 22K
R12 B1 47K
15.5V
1/3 IC2 B1
9 Fe
4073
6 Cr
1/3 IC2 B1
11
12
10
A2 1/4 IC6
13
4066 A2 1/4 IC6
2
1/3 IC2 B1
R15 B1 22K
R16 B1 22K
MP
10
P1-2
P1-1
P10-8
P10 12
Cr
S2
MP
S5
94
S2 S5
Fe ON ON
Cr OFF ON
MP OFF OFF
Cr MP/Fe
A12
REC/PLAY
103
AUTOREVERSE ON OFF
S2
C34
C35
C36
NOISE REDUCTION SYSTEM MANUFACTURED UNDER
LICENS FROM DOLBY LABORATORIES.
LICENSING CORPORATION.
THE WORD DOLBY IS A TRADE MARK OF
DOLBY LABORATORIES LICENSING CORPORATION.
MP A3
Cr A2
Fe A1
15.5V
R20 D3 3K9
REC. CURRENT
15.5V
14
+VB
R21 D3 22K
3
Fe
4
D3 D3
A15
5
R22 D4 6K8
9
Cr
8
6
R23 D4 10K
10
MP
11
REC MUTE
C32
12
4066
1
2
IC5 D4
13
7
BIAS LEVEL RIGHT
4.4V
BIAS REF
A5
15.5V
A2 R217 12K
A2 R218 10K
R219 6K8 A2
14
9
Fe
8
BIAS LEVEL RIGHT
A6
6
A2
1/4 IC6
A1 R220 6K8
A1 R221 10K
R222 2K7 A1
10
Cr
11
12
A1
1/4 IC7
A1 R224 10K
R225 12K A1
9
MP
8
6
A1
1/4 IC7
4066
7
BIAS LEVEL LEFT
15.5V
B1 R417 12K
B2 R418 10K
R419 6K8 B2
3
Fe
4
BIAS LEVEL LEFT
A4
5
A2
1/4 IC6
B1 R420 6K8
B1 R421 10K
R422 2K7 B1
2
Cr
1
13
A1
1/4 IC7
B1 R424 10K
R425 12K B1
3
MP
4
5
A1
1/4 IC7
4066
7

DIAGRAM C (Control and Operation)



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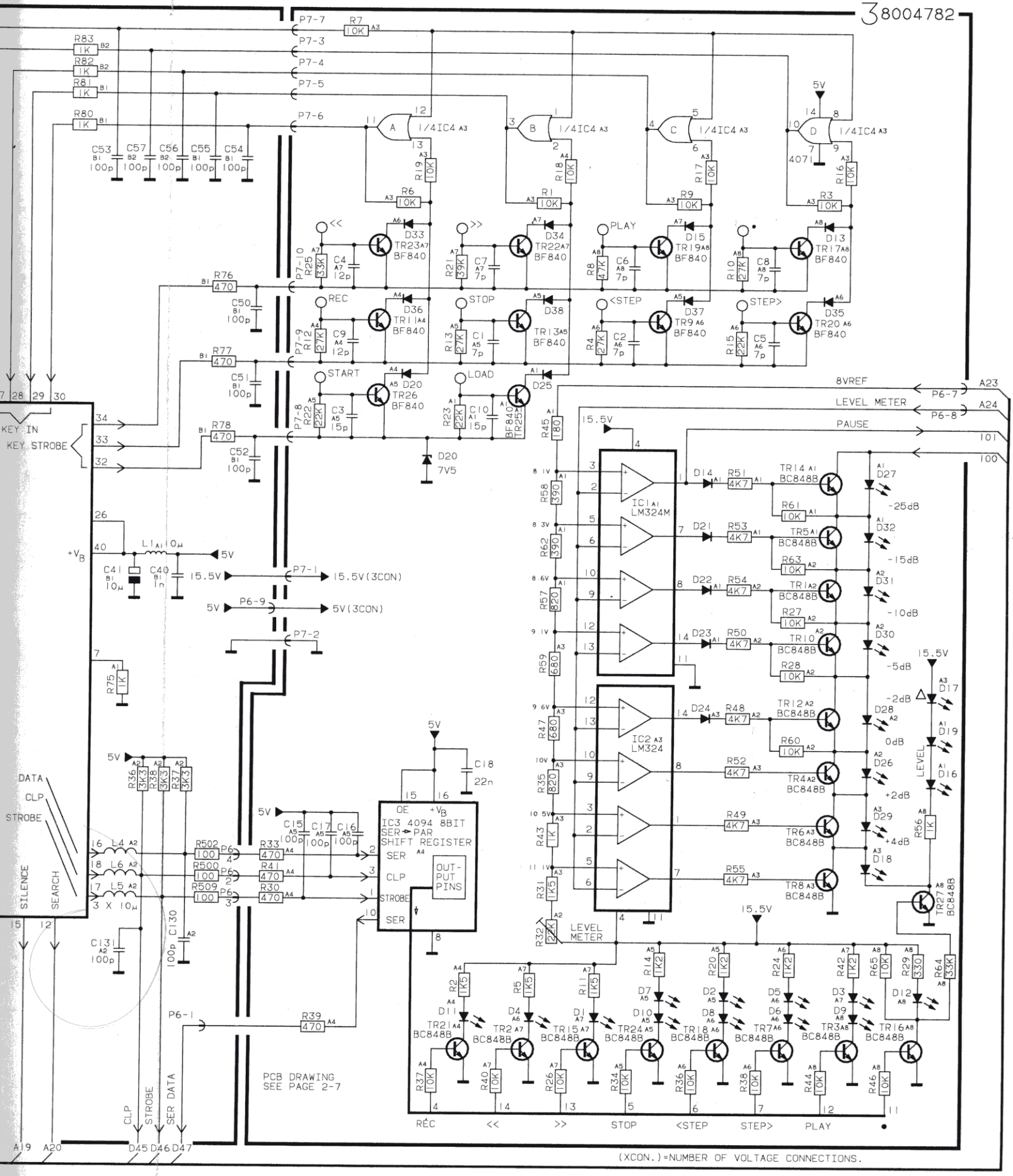
P7-7
P7-3
P7-4
P7-5
P7-6
R83 1K
R82 1K
R81 1K
R80 1K
C53 100p
C57 100p
C56 100p
C55 100p
C54 100p
R7 10K
R6 10K
R1 10K
R9 10K
R3 10K
R19 10K
R18 10K
R17 10K
R16 10K
1/4IC4
A
B
C
D
5V
407
<<
>>
PLAY
REC
STOP
<STEP
STEP>
START
LOAD
D33 TR23 BF840
D34 TR22 BF840
D15 TR19 BF840
D13 TR17 BF840
D36 TR11 BF840
D38 TR13 BF840
D37 TR9 BF840
D35 TR20 BF840
D20 TR26 BF840
D25 BF840 TR25
R25 33K
R21 39K
R8 47K
R10 27K
R12 27K
R13 27K
R4 27K
R15 22K
R22 22K
R23 22K
C4 12p
C7 7p
C6 7p
C8 7p
C9 12p
C1 7p
C2 7p
C5 7p
C3 15p
C10 15p
R76 470
R77 470
R78 470
C50 100p
C51 100p
C52 100p
P7-10
P7-9
P7-8
KEY IN
KEY STROBE
D20 7V5
8VREF
LEVEL METER
PAUSE
P6-7
P6-8
A23
A24
101
100
15.5V
IC1 LM324M
IC2 LM324
D14
D21
D22
D23
D24
R51 4K7
R53 4K7
R54 4K7
R50 4K7
R48 4K7
R52 4K7
R49 4K7
R55 4K7
R45 180
R58 390
R62 390
R57 820
R59 680
R47 680
R35 820
R43 1K
R31 1K5
R32 22K
TR14 BC848B
TR5 BC848B
TR1 BC848B
TR10 BC848B
TR12 BC848B
TR4 BC848B
TR6 BC848B
TR8 BC848B
R61 10K
R63 10K
R27 10K
R28 10K
R60 10K
D27
D32
D31
D30
D28
D26
D29
D18
-25dB
-15dB
-10dB
-5dB
-2dB
0dB
+2dB
+4dB
LEVEL
D17
D19
D16
R56 1K
TR27 BC848B
L1 10µ
L4
L6
L5
3 X 10µ
C41 10µ
C40 1n
C18 22n
C15 100p
C17 100p
C16 100p
C13 100p
100p C130
+VB
5V
15.5V(3CON)
5V(3CON)
P7-1
P6-9
P7-2
R75 1K
R36 3K3
R38 3K3
R37 3K3
R502 100
R500 100
R509 100
R33 470
R41 470
R30 470
R39 470
P6-1
OE
+VB
IC3 4094 8BIT SER→PAR SHIFT REGISTER
SER
CLP
STROBE
OUT-PUT PINS
DATA
CLP
STROBE
SILENCE
SEARCH
R2 1K5
R5 1K5
R11 1K5
R14 1K2
R20 1K2
R24 1K2
R42 1K2
R65 10K
R29 330
R64 33K
D11
D4
D1
D7
D2
D5
D3
D12
D6
D9
D10
D8
TR21 BC848B
TR2 BC848B
TR15 BC848B
TR24 BC848B
TR18 BC848B
TR7 BC848B
TR3 BC848B
TR16 BC848B
R37 10K
R40 10K
R26 10K
R34 10K
R36 10K
R38 10K
R44 10K
R46 10K
RÉC
<<
>>
STOP
<STEP
STEP>
PLAY
PCB DRAWING SEE PAGE 2-7
CLP
STROBE
SER DATA
A19
A20
D45
D46
D47
(XCON.)=NUMBER OF VOLTAGE CONNECTIONS.

9-4
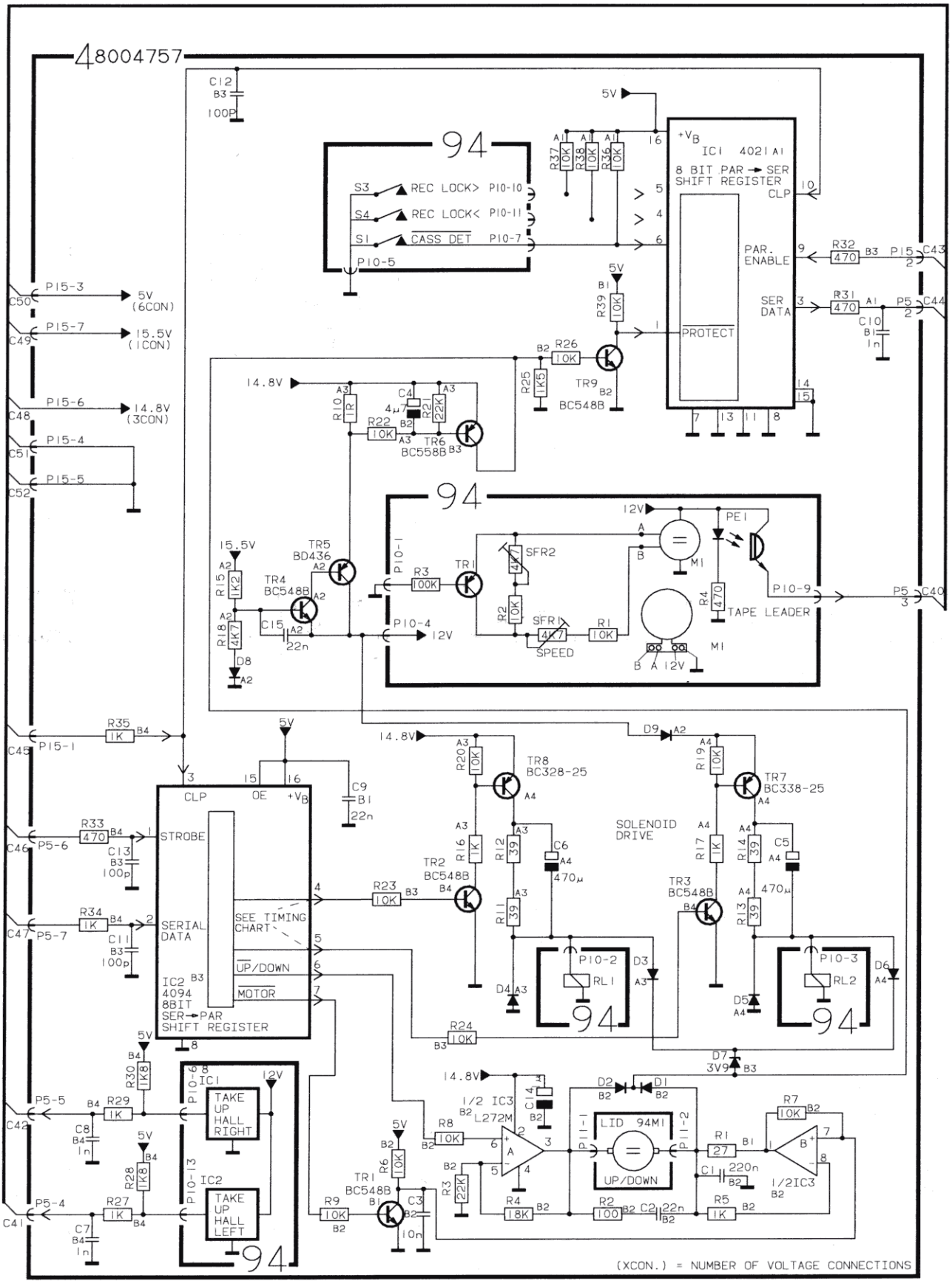
DIAGRAM C (Tape Deck Control)